### PATENT COOPERATION TREATY

## **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	agent's file reference	FOR FURTHER AC	ΓΙΟΝ	See Form PCT/IPEA/416					
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)					
PCT/EP2004/011019		02.10.2004		14.10.2003					
International	Patent Classification (IPC) or na	ational classification and IP	C						
B62D53/08,B60D1/62									
Applicant									
	ERCHRYSLER AG								
und	. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. Thi	REPORT consists of a total of	5	sheets, including	g this cover sheet.					
3. Thi	report is also accompanied by	ANNEXES, comprising:							
a.	(sent to the applicant ar	nd to the International Bure	au) a total of	sheets, as follows:					
	sheets of the descr	ription, claims and/or drawi	ngs which have been a	mended and are the basis for this report and/or					
	sheets containing : Instructions).	rectifications authorized by	this Authority (see Rul	le 70.16 and Section 607 of the Administrative					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
	Box.								
b.	(sent to the International	al Bureau only) a total of (in	dicate type and number	r of electronic carrier(s))					
				, containing a sequence listing and/or tables					
	related thereto, in comput Section 802 of the Admin		ndicated in the Suppler	mental Box Relating to Sequence Listing (see					
4. This	report contains indications rela	ating to the following items:							
	Box No. I Basis of t	he report							
	Box No. II Priority								
	Box No. III Non-estat	olishment of opinion with re	gard to novelty, inventi	ive step and industrial applicability					
	Box No. IV Lack of u	nity of invention							
	Box No. V Reasoned	statement under Article 35(		lty, inventive step or industrial applicability;					
-	citations and explanations supporting such statement								
	Box No. VI Certain documents cited								
<u> </u>	Box No. VII Certain defects in the international application								
Box No. VIII Certain observations on the international application									
Date of submission of the demand			ate of completion of thi	is report					
Name and mailing address of the IPEA/EP			uthorized officer						
Facsimile No.			elephone No.						

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/011019

Box	k No. I	I Basis of the report					
1.		h regard to the language, this report is based on the internation icated under this item.	al application in the language in	which it was filed, unless otherwise			
		This report is based on translations from the original language which is the language of a translation furnished for the purposition international search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/o	oses of:	·			
2.	rece	th regard to the <b>elements</b> of the international application, this reviving Office in response to an invitation under Article 14 are report):  the international application as originally filed/furnished the description:					
		pages 1-3,7-13 pages* 4-6	received by this Authority on	as originally filed/furnished 03.07.2005 with letter of 03.07.2005			
		pages*	received by this Authority on				
	$\boxtimes$	the claims:		as originally filed/furnished			
		nos.*					
		nos.* 1-6		03.07.2005 with letter			
		nos.*					
	$\boxtimes$	the drawings:					
		sheets 1/1		as originally filed/furnished			
		sheets*	received by this Authority on				
		sheets*	received by this Authority on				
		a sequence listing and/or any related table(s) - see Suppleme	ntal Box Relating to Sequence L	isting.			
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
4.		This report has been established as if (some of) the amendathey have been considered to go beyond the disclosure as file					
		the description, pages		· · · · · · · · · · · · · · · · · · ·			
		the claims, nos.		<u>.</u>			
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to sequence listing (specify):					
*	If ite	em 4 applies, some or all of those sheets may be marked "supe	rseded."				

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/011019

Вох		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)		1-6	YES	
		Claims		_ NO	
	Inventive step (IS)		1-6	YES	
		Claims		_ NO	
	Industrial applicability (IA)	Claims	1-6	YES	
		Claims		_ NO	

- 2. Citations and explanations (Rule 70.7)
  - 1 Reference is made to the following document:

D1: US-B1-6 222 443.

Document D1 is considered the prior art closest to the subject matter of claim 1. It discloses a tow vehicle, a trailer and a trailer coupling, wherein the trailer has data lines for the transmission of the control data and power supply lines for a power supply to the components, and wherein the tow vehicle has a voltage generator for producing a periodically fluctuating carrier signal, a signal modulator modulates the control data onto the carrier signal and a transmitter is disposed in the tow part of the tow vehicle so as to transmit the carrier signal onto which the control data have been modulated to a transmitter near the hitch part of the trailer, wherein a demodulator in the trailer splits the total signal transmitted by inductive coupling into a carrier signal and the control data, and the control data are intended for controlling a component in the trailer.

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The subject matter of claim 1 therefore differs from the known tow vehicle in that it is an articulated vehicle and that a fifth-wheel coupling assigned to the tow vehicle and a coupling part assigned to the semi-trailer is provided for mechanically connecting the tow vehicle and the semi-trailer, wherein the coupling part assigned to the tow vehicle is a fifth-wheel pick-up plate and the coupling part assigned to the semi-trailer is in the form of a matching fifth-wheel kingpin, wherein a transmitter is disposed in the pick-up plate of the tow vehicle so as to transmit the carrier signal onto which the control data have been modulated to a transmitter near the fifth-wheel kingpin of the semi-trailer, and wherein the transmitter in the fifth-wheel pick-up plate of the tow vehicle is a toroidal coil whose straight or curved longitudinal axis is essentially parallel to the plane of the fifth-wheel pick-up plate.

Consequently, the subject matter of claim 1 is novel (PCT Article 33(2)).

2.1 The problem to be solved by the present invention is therefore understood to be that of creating a space-saving transmission system for an articulated vehicle, which does not require a mechanical coupling of the electrical plug-in connector of the electric lines.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The solution to this problem, as proposed in claim 1 of the present application, does not involve an inventive step (PCT Article 33(3)), for the following reasons:

The arrangement of the transmitter toroidal coil parallel to the plane of the pick-up plate creates a compact transmission device. The combination of features contained in claim 1 is not suggested by the present prior art.

- 2.2 Claims 3 and 4 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.
- 2.3 Dependent claims 2, 5 and 6 respectively relate to an articulated vehicle, a tow vehicle and a semitrailer. They contain the inventive features of claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.